

Official Product Identity Mapping

ASP530F-03-08S

Official SMC model identity: ASP530F-03-08S

ASP530F = speed controller with pilot check valve, body size 5

-03 = cylinder R3/8 and pilot Rc1/8; -08 = 8 mm tube O.D.

S = configuration with the cataloged fitting/seal arrangement

The following official family pages define construction, dimensions and weight.

Official model page:

<https://www.smcworld.com/webcatalog/s3s/en-jp/detail/?partNumber=ASP530F-03-08S>

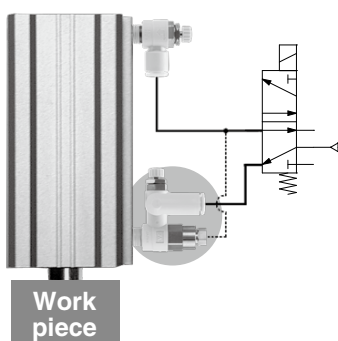
Speed Controller with Pilot Check Valve with One-touch Fitting

Series ASP

RoHS

Pilot check valve and speed controller are combined.

Realizes momentary intermediate stoppage of a cylinder and able to adjust speed control of it.

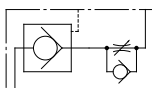


Example of drop prevention circuit

Tubing mount direction is 360° free.
Electroless nickel plated is provided as standard.



Symbol



Made to Order

Made to Order

Lubricant: Vaseline

X12

Model

Model	Port size	Pilot port	Applicable tubing O.D.							
			Metric size				Inch size			
			ø6	ø8	ø10	ø12	ø1/4"	ø5/16"	ø3/8"	ø1/2"
ASP330F-01	R 1/8	M5 x 0.8	●	●						
ASP430F-02	R 1/4	Rc 1/8	●	●						
ASP530F-03	R 3/8	Rc 1/8		●	●					
ASP630F-04	R 1/2	Rc 1/4			●	●				
ASP430F-F02	R 1/4	G 1/8	●	●						
ASP530F-F03	R 3/8	G 1/8		●	●					
ASP630F-F04	R 1/2	G 1/4			●	●				
ASP330F-N01	NPT 1/8	10-32 UNF					●	●		
ASP430F-N02	NPT 1/4	NPT 1/8					●	●		
ASP530F-N03	NPT 3/8	NPT 1/8						●	●	
ASP630F-N04	NPT 1/2	NPT 1/4							●	●

Note) Brass parts are all electroless nickel plated.

Specifications

Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Pilot check valve operating pressure	More than 50% the operating pressure (Over 0.1 MPa)
Ambient and fluid temperature	-5 to 60°C (No freezing)
Applicable tubing material	Nylon, Soft nylon, Polyurethane

Note) Use caution regarding the max. operating pressure when soft nylon or polyurethane tubing is used.
(Refer to pages 411 and 412 for details.)

Flow Rate and Sonic Conductance

Model	Metric size	ASP330F		ASP430F		ASP530F		ASP630F	
		ø6, ø8	ø6	ø8	ø8	ø10	ø10	ø12	ø12
Tubing O.D.	Inch size	ø1/4" ø5/16"	—	ø1/4" ø5/16"	ø5/16"	ø3/8"	—	ø3/8" ø1/2"	ø1/2"
	Flow rate (L/min(ANR))	180	330	350	600	750	1100	1190	
Controlled flow	Sonic conductance dm ³ /(s·bar)	0.58	1.04	1.08	1.86	2.32	3.4	3.68	
	Free flow								
Critical pressure ratio	Controlled flow	0.15	0.15		0.15		0.15		
	Free flow	0.25	0.25		0.25		0.25		

Note) Flow rate values are measured at 0.5 MPa and 20°C.

AS

TMH

ASD

AS

AS-FE

KE

AS-FG

AS-FP

AS-FM

AS-D

AS-T

ASP

ASN

AQ

ASV

AK

VCHC

ASS

ASR

ASQ

Series ASP

How to Order

ASP 3 30F-01-06 S- - -

Pilot check valve

Body size

3	1/8 standard
4	1/4 standard
5	3/8 standard
6	1/2 standard

Universal

With One-touch fitting

Lock nut option

Nil	Hexagon lock nut
J	Round lock nut

Made to Order

X12 Lubricant: Vaseline
Ex.) ASP330F-01-06S-X12

With seal

Applicable tubing O.D. Note)

Metric size	Inch size
06	ø6
08	ø8
10	ø10
12	ø12
07	ø1/4"
09	ø5/16"
11	ø3/8"
13	ø1/2"

Note) For applicable tubing O.D. selection, refer to the Model on page 617.

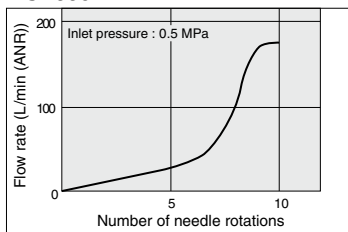
Port size

Symbol	Cylinder side	Pilot port
01	R 1/8	M5 x 0.8
02	R 1/4	Rc 1/8
03	R 3/8	Rc 1/8
04	R 1/2	Rc 1/4
F02	R 1/4	G 1/8
F03	R 3/8	G 1/8
F04	R 1/2	G 1/4
N01	NPT 1/8	10-32 UNF
N02	NPT 1/4	NPT 1/8
N03	NPT 3/8	NPT 1/8
N04	NPT 1/2	NPT 1/4

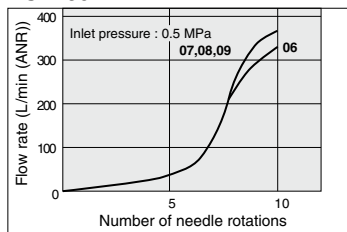
Needle Valve/ Flow Characteristics

Note) The flow characteristics are representative values.

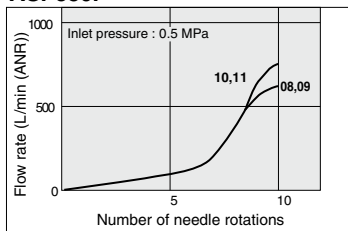
ASP330F



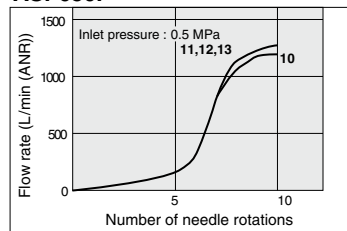
ASP430F



ASP530F

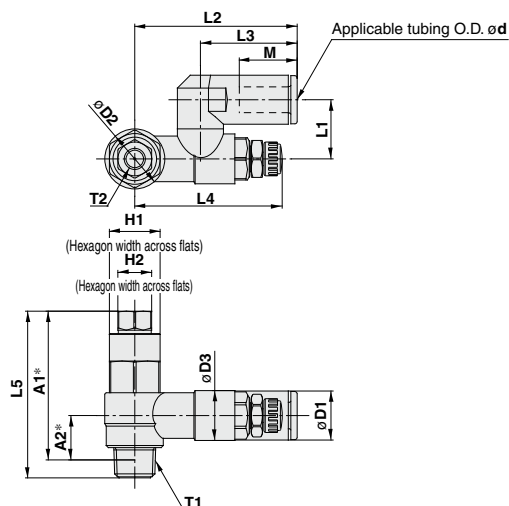


ASP630F



Speed Controller with Pilot Check Valve with One-touch Fitting **Series ASP**

Dimensions

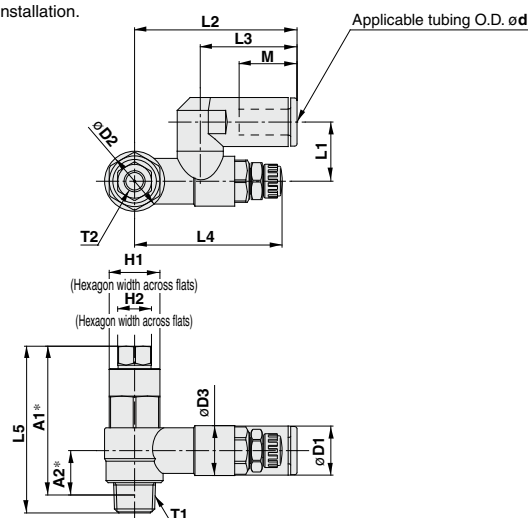


Metric Size

Model	d	T1	T2	H1	H2	D1	D2	D3	L1	L2	L3	L4 ⁽¹⁾		L5	A1 ⁽²⁾	A2 ⁽²⁾	M	Weight (g)
												Max.	Min.					
ASP330F-01-06S	6	R 1/8	M5 x 0.8	12	8	11.6	14.2	11.8	14	38.4	22.9	39.6	34.6	38.6	35.2	10.5	13.7	32
ASP330F-01-08S	8					15.2						38.9	33.9					
ASP430F-02-06S	6	R 1/4	1/8	17	12	12.8	18.5	15	18	43.4	25.2	41.7	36.7	48.2	42.4	10.9	16.8	65
ASP430F-02-08S	8					15.2						39.7	34.7					
ASP530F-03-08S	8	R 3/8	1/8	19	12	15.2	23	19.8	20.3	51.3	28.2	46.9	41.9	55.1	50	14.4	18.7	107
ASP530F-03-10S	10					18.5						43.1	38.6					
ASP630F-04-10S	10	R 1/2	1/4	24	17	18.5	28.6	26.5	25.9	64.2	32.6	64.8	57.3	69.4	61.8	18.3	20.8	212
ASP630F-04-12S	12					20.9						66	34.4					

Note 1) Reference dimensions

Note 2) Reference dimensions of R thread after installation.



Inch Size

Model	d	T1	T2	H1	H2	D1	D2	D3	L1	L2	L3	L4 ⁽¹⁾		L5	A1 ⁽²⁾	A2 ⁽²⁾	M	Weight (g)
												Max.	Min.					
ASP330F-N01-07S	1/4"	NPT 1/8	10-32 UNF	1/2"	8	13.2	14.2	11.8	15.8	42.2	25.6	38.9	33.9	38.6	35.1	10.5	17	35
ASP330F-N01-09S	5/16"					15.2												
ASP430F-N02-07S	1/4"	NPT 1/4	NPT 1/8	11/16"	1/2"	13.2	18.5	15	18	43.9	25.6	41.7	36.7	48.2	42.6	10.9	17	68
ASP430F-N02-09S	5/16"					15.2												
ASP530F-N03-09S	5/16"	NPT 3/8	NPT 1/8	19	1/2"	15.2	23	19.8	20.3	51.3	28.2	46.9	41.9	55.1	50.3	14.4	18.7	107
ASP530F-N03-11S	3/8"					18.5												
ASP630F-N04-11S	3/8"	NPT 1/2	NPT 1/4	15/16"	11/16"	18.5	28.6	26.5	25.9	64.2	32.6	64.8	57.3	69.4	61.8	18.3	20.8	220
ASP630F-N04-13S	1/2"					21.7												

Note 1) Reference dimensions

Note 2) Reference dimensions of NPT thread after installation.





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